

**What is claimed is:**

1. A method of driving a plasma display panel, comprising the steps of:
  - 5 setting the number of sustaining pulses in response to an average picture level; and
  - setting a period of the sustaining pulse in proportion to said average picture level.
- 10 2. The method as claimed in claim 1, wherein said step of setting the number of sustaining pulses includes:
  - setting the number of sustaining pulses in inverse proportion to an average picture level.
- 15 3. The method as claimed in claim 1, wherein said step of setting a period of sustaining pulses includes:
  - setting a high width of the sustaining pulse largely in proportion to an average picture level.
- 20 4. The method as claimed in claim 1, wherein said step of setting a period of sustaining pulses includes:
  - setting a low width of the sustaining pulse largely in proportion to an average picture level.
- 25 5. The method as claimed in claim 1, wherein said step of setting a period of sustaining pulses includes:
  - setting a low width and a high width of the sustaining pulse largely in proportion to an average picture level.
- 30 6. The method as claimed in claim 1, wherein a maximum period of the sustaining pulse is wider, by  $0.5\mu s$  to  $10\mu s$ , than a minimum period of the sustaining pulse.

7. The method as claimed in claim 1, wherein said period of the sustaining pulse is changed in at least partial region of said average picture level.

5       8. The method as claimed in claim 7, further comprising the step of:

setting a minimum limit frequency at more than a desired average picture level such that said period of the 10 sustaining pulse is limited to less than a certain width.

9. The method as claimed in claim 8, wherein said minimum limit frequency is set such that a maximum period of the sustaining pulse is widened, by  $0.5\mu s$  to  $10\mu s$ , than a 15 minimum period of the sustaining pulse.

10. The method as claimed in claim 7, further comprising the step of:

setting a maximum limit frequency at less than a 20 desired average picture level such that said period of the sustaining pulse is limited to more than a certain width.

11. The method as claimed in claim 1, wherein said period of the sustaining pulse is increased in a stepwise manner 25 as said average picture level goes from a lower level into a higher level.

12. A method of driving a plasma display panel, comprising the steps of:

30       setting the number of sustaining pulses in response to an average picture level; and  
            setting a high width of the sustaining pulse in proportion to said average picture level.

13. The method as claimed in claim 12, wherein said high width of the sustaining pulse is changed in at least partial region of said average picture level.

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14. A method of driving a plasma display panel, comprising the steps of:

setting the number of sustaining pulses in response to an average picture level; and

10 setting a low width of the sustaining pulse in proportion to said average picture level.

15. The method as claimed in claim 14, wherein said low width of the sustaining pulse is changed in at least partial region of said average picture level.

16. A driving apparatus for a plasma display panel, comprising:

average picture level means for setting an average picture level corresponding to a video data; and  
20 period setting means for setting a period of a sustaining pulse in such a manner to be in proportion to said average picture level set by the average picture level means.

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17. The driving apparatus as claimed in claim 16, wherein said period setting means sets a high width of the sustaining pulse in proportion to said average picture level.

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18. The driving apparatus as claimed in claim 16, wherein said period setting means sets a low width of the sustaining pulse in proportion to said average picture

level.

19. The driving apparatus as claimed in claim 16, wherein  
said period setting means sets a low width and a high  
5 width of the sustaining pulse in proportion to said  
average picture level.

20. The driving apparatus as claimed in claim 16, further  
comprising:

10 limit value setting means for setting at least one of  
a maximum limit value capable of widening a period of the  
sustaining pulse and a minimum limit value capable of  
narrowing said period of the sustaining pulse.

15 21. The driving apparatus as claimed in claim 51, wherein  
said period setting means receives at least one of said  
maximum limit value and said minimum limit value to  
control said period of the sustaining pulse.

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